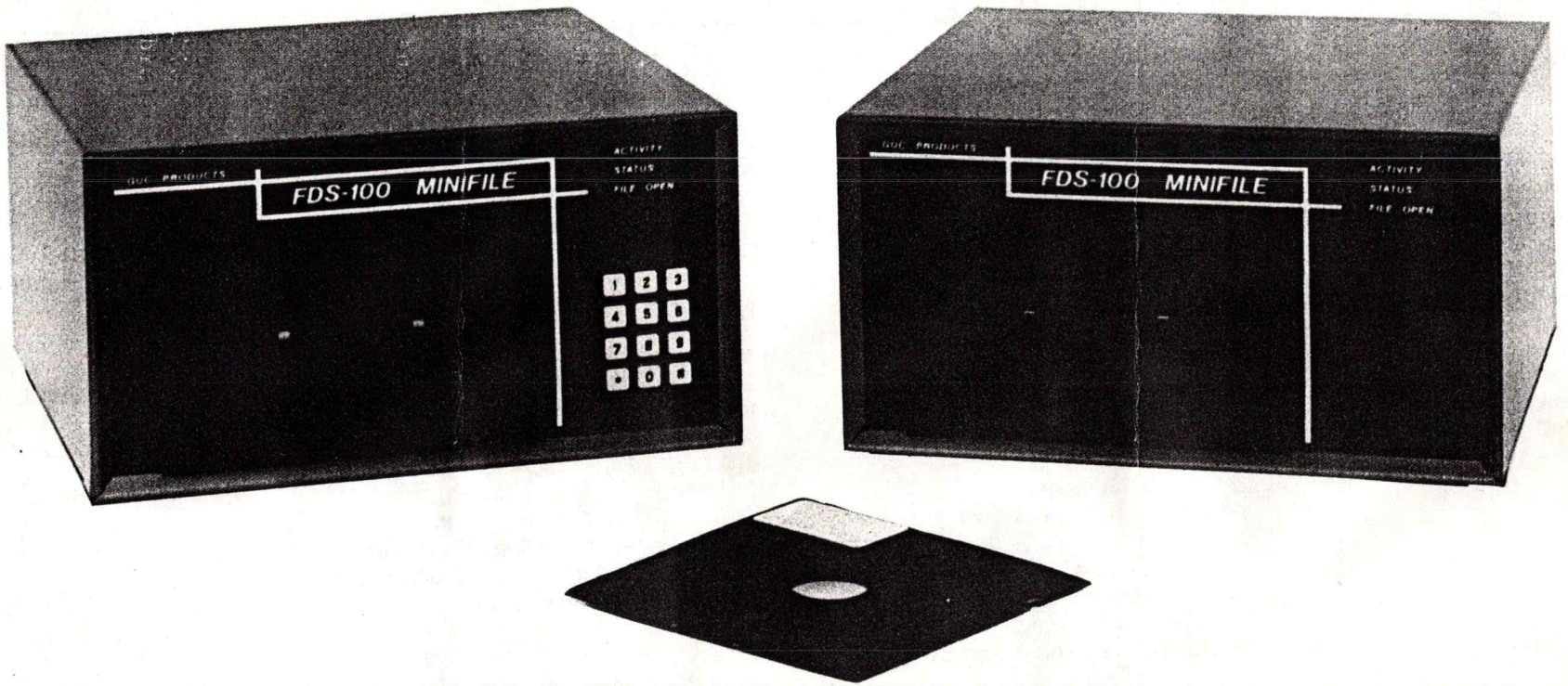
FDS-100 MINIFILE

RUGGED INTELLIGENT MINIFLOPPY DISK SYSTEM FAMILY



RS-232, IEEE-488, 8 bit TTL and PDP-11 interfaces
Keyboard and non-keyboard versions
The lightest and the smallest in the market
The only unit available with dust sealing and rugged package

Firmware resident powerful file management
Block error checking and true binary data
Microprocessor controlled with RAM buffering
Single and dual density versions

(Convergent/HPE-1)

FDS-100 MINIFILE FAMILY SPECIFICATIONS

MODEL S

Interface: RS-232C
or CURRENT LOOP
Application: Computer program loading and data storage
Baud rate: 50 to 9600

MODEL SK (with keyboard)

Interface: RS-232C
or CURRENT LOOP
Application: Mass storage for instruments and computer program loading
Baud rate: 50-9600

MODEL GK (with keyboard)

Interface: 8 bit
parallel TTL
Application: Mass storage for instruments and reader/punch emulation
Transfer rate: see brochure for model GK

MODEL 11K (with keyboard)

Interface: PDP-11 UNIBUS*
Application: Paper tape replacement; PC-11 software compatible
Average transfer rate:
read or write: 1,450 bytes/sec
read after write: 550 bytes/sec

A. GENERAL SPECIFICATIONS

Storage media: 5.25 inch diskettes
Storage capacity (formatted):
single density: 89,600 bytes
double density: 179,200 bytes
Recording format
sectors per track: 16
tracks per diskette: 35
block length for:
single density, 160 bytes
double density, 320 bytes
Rotational speed: 300 rpm
Front panel indicators:
ACTIVITY
STATUS
FILE OPEN
HEADS LOADED
Front panel displays: 3 digit seven segment LED for status display (Models SK, GK & 11K)
Front panel controls: 3x4 keyboard for file management control (Models SK, GK & 11K)
Front panel dust sealing: by means of drive access door (not shown on photo)
Rear panel controls: power on/off
Rear panel connectors:
interface connector
power cable connector
Power requirements:
115 or 230 VAC
47 to 400 Hz
50 Watts
Physical parameters:
size: 5.25 inch (13.3 cm) height
10.0 inch (25.4 cm) width
10.5 inch (26.7 cm) depth
weight: 12 lbs (5.5 kg)

B. RELIABILITY SPECIFICATIONS

MTBF: 8000 hours
MTTR: 60 minutes
Soft errors: recovered by the controller
Hard errors: one per 100 billion bits
Seek errors: recovered by the controller
Read error detection: checksum
Read error recovery: up to 16 attempts to read on error
Transmission error detection: CRC-16 or checksum (Model S)
Transmission error recovery: request for retransmission (Model S)
Status and error reporting: front panel display (Models SK, GK and 11K) thru interface port (Model S)

C. FILE MANAGEMENT FUNCTIONS

DEFINE FILE. Opens file for writing.
CLOSE WRITE FILE. Releases defined file.
SELECT FILE. Opens file for reading.
CLOSE READ FILE. Releases selected file.
DELETE FILE. Removes file from the directory.
FREE BLOCKS. Provides number of available blocks.
DIRECTORY. Provides names of files currently in the directory.
INITIALIZE DIRECTORY. Deletes any file from diskette's directory.
VERIFY DISKETTE. Reads track addresses and data and compares recorded block check characters with newly computed ones.
FORMAT DISKETTE. Writes track addresses and block check characters for the entire diskette. In addition, performs INITIALIZE DIRECTORY and VERIFY DISKETTE functions.
COMPRESS DISKETTE. Repacks the files and reclaims space unavailable after file deletion.

D. SYSTEM STATUS INFORMATION

FILE ALREADY EXISTS. Attempt to define already defined file.
FILE DOES NOT EXIST. Selected file can not be found in the directory.
ILLEGAL FUNCTION. Issued command not recognized by FDS-100.
DISKETTE FULL. Diskette has no room for the data transmitted.
END OF FILE. All the data from selected file have been transmitted.
INITIALIZE ERROR. Data error during initialize or format command.
FILE ALREADY OPEN. Attempt to open a file with one currently open.
DIRECTORY READ ERROR. FDS-100 was unable to read directory without error. Usually indicates unformatted diskette.
BLOCK CHECK ERROR. Block can not be read without error within sixteen tries.

*Trademark: Digital Equipment Corporation

G.U.C. PRODUCTS (714) 449-5775

10020 Prospect Ave., Suite A-15
Santee, California 92071

FDS-100 MINIFILE PRICE SHEET

MODEL	STORAGE	INTERFACE	MAIN APPLICATION	OPTIONS	PRICE
S	89 KB	RS232C	Mass storage for intelligent host device. File management via RS232 protocol.	none	$ 1,595
SK	89 KB / 179 KB	RS232C	Program and data storage for computers and instruments.	Current loop	$ 1,795 / 2,095
SKC	89 KB / 179 KB	RS232C	Program and data storage for computers and instruments requiring custom serial line protocol.	Custom protocol Current loop Silk screen / color	$ 1,795 / 2,095
SKR	89 KB / 179 KB	Parallel	Paper tape reader replacement for numerical control machines.	Signal levels Signal timing	$ 1,895 / 2,195
GK	89 KB	Parallel	Paper tape reader and punch replacement for computers.	none	$ 2,295

effective January 1, 1981

* Consult factory for prices on options
** Delivery - 45 days ARO
*** Prices subject to change without notice

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QUANTITY DISCOUNT SCHEDULE

FOR

FDS-100 MINIFILE FAMILY

(effective January 1, 1981)

QUANTITY	DISCOUNT (%)
1 - 9	0
10 - 24	10
25 - 49	18
50 - 99	24
100 - 199	28
200 -	30

Quantity is the number of units purchased over a 12 month period. Parties eligible for discount are OEM customers, distributors, and stocking representatives.